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BULLETIN

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March 1965

Number 3

### HAROLD G. PETERSON — IN MEMORIAM

Harold G. Peterson, Field Trips Chairman for the Golden Gate Audubon Society, passed away in Oakland on January 18 after a brief illness. He was 63 years of age and was born in Hibbing, Minnesota.

Harold Peterson had served the Golden Gate Audubon Society as Field Trips Chairman since 1958; he previously had served as Vice President in 1957 and as Treasurer from 1953 through 1956. For some years before that he had led field trips and assisted the Society in many ways.

During these recent years as Field Trips Chairman, Harold had served us with unfaltering zeal, patience and singular achievement. He personally scouted many of the long trips, won cooperation from sometimes suspicious landowners, and then gave rides to members and strangers who might not otherwise have attended. We of Golden Gate Audubon Society had come to consider this man as indispensable to the field trips operation, but we also called on him when in need for other difficult assignments, such as organizing and tabulating the Christmas Census. We realize now that he cheerfully accepted some of these tasks at considerable personal sacrifice. For this we should also thank his wife, Margaret, and his sons, Robert and George, who not only shared him with us, but helped him on innumerable occasions.

The Boy Scouts of America also knew Harold G. Peterson as a devoted, tireless worker, who served since the early 1940's as scoutmaster and as merit badge counselor. The Boy Scouts awarded him their highest award, the Silver Beaver, in 1953. Scores of scouts earned their Bird Badges and other merit badges with Harold. Many of these boys were brought on Audubon trips or even persuaded to slush around in our South Shore Sanctuary erecting the essential boundary signs and warnings. An Honorary Life Membership in the California Congress of Parents and Teachers Association was awarded in 1961 by the Burbank School Chapter "for services to over 600 neighborhood boys through his work in the Boy Scout program."

Our grief at the untimely loss of Harold Peterson is shared with a realization of how great was our privilege to know and work with this talented and cheerful man. We hope his example will inspire us all to give more unstintingly of our time and talents to youth, to appreciation of the outdoors and to conserving it.

Friends and admirers of Mr. Peterson are invited to send memorial contributions to the Audubon Canyon Ranch Fund through Dr. Albert Boles, Chairman of our Sanctuary and Memorial Fund, 854 Longridge Rd., Oakland 10. — PAUL F. COVEL

### DR. EDWARDS TO TALK ON NATURE PHOTOGRAPHY

Dr. Martin Edwards will give an illustrated talk on "Nature Photography — Techniques, Equipment and Results" at our regular March meeting. Dr. Edwards is Professor of Physics at the Royal Military College, Kingston, Ontario, and Instructor of Nature Photography at the Ontario Naturalist Summer Camp.

This meeting will be held *Thursday, March 11*, at the First Unitarian Church, Franklin and Geary Sts., San Francisco. The evening will start with a social hour at 6 p.m. and dinner (\$1.50 per person) at 6:30. Our meeting will begin at 7:30 p.m.

*If you plan to come for dinner, please let us hear from you by Tuesday, March 9, so that we can buy the right quantity of food. Drop a card to Bonnie Smith, 555 Dewey Blvd., San Francisco 16, or telephone Vi Drescher at LO 6-0742. We'll look forward to seeing you — and a friend. — THOMAS B. WILLIAMSON, Program Chairman*

### FIELD TRIPS FOR MARCH

*Sunday, March 7, Tomales Point boat trip (Marin County). Shore and water birds can be seen and maybe harlequins and oldsquaws. Meet at Lawson's Landing, Dillon Beach (east shore of Tomales Bay) at 8:30 a.m. The boat leaves at 9 a.m. and will return at 2 p.m. Parking fee is \$1.00 per car at Lawson's Landing; boat fee is \$1.50. Wear warm clothing, bring lunch, binoculars and 'scopes. The hike to the Point is about a mile, therefore pack lunch so that it can be carried conveniently. Boat space is limited; please call Valeria DaCosta, WE 1-5257, if you plan to go. Leaders: Alice Williams and Hans Meinhardt.*

*Wednesday, March 10, Golden Gate Park. Early migrants and wintering birds may be seen. This trip will start at 10 a.m. from the Aquarium in Golden Gate Park; it can be reached by taking the No. 10 bus. Leader, Florence Plymell, PR 6-1208.*

*Thursday, March 11, to the region of old quarry east of Redwood Rd., Oakland. We shall walk from Mountain Blvd. up the south face of the hill, where the flowers bloom earliest. Meet at the junction of Warren Blvd. and Redwood Rd. (near the church on the corner) at 9 a.m. If using public transportation, take a No. 15 bus, or transfer to a No. 15 bus at Randolph Ave. on MacArthur Blvd. at 8:52 from Nos. 34 or 57 buses or the 8:15 N bus from San Francisco, and get off on Warren Blvd. (Mountain Blvd.) at Anderson Ave., two blocks beyond 35th Ave. Bring lunch, binoculars, and friends. Leader, Marshall Jencks, 534-9353.*

*Saturday, March 13, Rodeo Lagoon, Marin County. Meet at the parking area just north of the Golden Gate Bridge at 9 a.m. Many species of water birds may be found on the ocean or the brackish lagoons behind the sandbar. Early spring migrants and Allen's hummingbirds can be expected. Leader, A Laurence Curl, 526-7004.*

*Saturday, March 20, Tilden Park, Berkeley. Meet at Spruce Street Reservoir, at Spruce and Grizzly Peak Blvd., at 9 a.m. From San Francisco take 8:11 a.m. F bus and transfer to No. 67 at University Ave. at 8:57 a.m. Orange-crowned and Wilson's warblers may be seen and heard. A hike to nearby hills will be made to see spring flowers. Leader, L. R. Leinbach, 526-7649.*

*Proposed trips for long-range planning: Sunday, April 25, Farallon Islands; Friday-Sunday, May 21-23, Yosemite National Park.*

— MRS. VALERIA DaCOSTA, *Field Trips Chairman*

### ANNUAL GRASSLANDS FIELD TRIP, MARCH 20 - 21

The Sacramento Audubon Society has invited us to participate in their annual overnight field trip to the Grasslands Area of western Merced County, *March 20-21*. The Grassland Water District will again play host to the Audubon Society and others interested in touring their 45,000 acres of privately owned wetlands. On Saturday, March 20, we will meet at 1:30 p.m. in Los Banos at the Canal Farm Inn. Motorcades will be formed to tour the flooded gun club lands in the south end of the Grasslands and the little known San Luis Island. A dinner will be arranged Saturday night at which Arthur Barr of Pasadena will show the color movies he filmed last May of the heron-egret rookery found on San Luis Island. Sunday, the group will reassemble at the Canal Farm Inn at 9 a.m. and visit the Los Banos and San Luis Wasteway Waterfowl Management Areas and the northern end of the grasslands.

You must make your own overnight reservation. Motels at Los Banos are the Canal Farm Inn, Motel Stardust, Motel Cinderella, La Faria Motel, and others. Camping facilities are available at Hatfield State Park on the San Joaquin River near Newman. Arrangements will be made with the Dept. of Fish and Game for people with "campers" to use the Los Banos Waterfowl Management Area for overnight parking. If you plan to attend, send a card to the leader, Howard Leach, 3828 French Ave., Sacramento (Phone IV 9-1618), so that he will have some idea of attendance.

## FOR THE CHILDREN

On *Saturday, March 20*, there will be a field trip starting at 10 and finishing at noon. The group will meet at the University of California Botanical Garden parking area in Strawberry Canyon, Berkeley, behind and about a mile up the hill from the stadium. Those without private transportation should phone Miss Phyllis Lindley, OL 4-3532, the evening before about bus transportation.

This trip will be one on insects. Bring along a forceps or tweezers and a hand lens if you have them. You can picnic up there, so bring your lunch. Miss Lindley will help you to find out how insects make a living.

## Insects

There are a great many insects in the world, in fact there are more insects than there are of all the animals you know added together. What is an insect? It is an animal with three parts to its body: a head, thorax, and abdomen. It also has an exoskeleton, or a skeleton which unlike our own is outside of the soft parts of the body. Many insects (but not all) have wings. They also have feelers or antennae. The scientific name for the group to which insects belong is *arthropoda*, which means jointed legs. The jointed-legged animals also include the crabs, lobsters, spiders, millipedes and centipedes. But because these animals do not have three parts to their bodies and six legs, they are not insects.

Insects have very curious eyes. These cannot be moved as ours can and therefore they must occupy a much larger part of the head than ours. Insects' eyes are composed of a great many six-sided lenses, each of which takes in a slightly different image. When all these images are fitted together they form a whole picture. On many insects it is easy to see the large bulges on both sides of the head, which are these compound (made of many parts) eyes. Most insects also have very elaborate mouths, each kind having a different arrangement of jaws and lips. This enables them to eat food of many kinds and in many ways. Some insects have a long beak-like mouth for making holes and sucking juices, and others like the butterfly have long tubes which roll up like a watch spring underneath the head. When unrolled, the tube goes deep into a flower from which it can suck up the nectar much as you suck up ice-cream soda through a straw.

The wings of insects vary, too, with each kind. Flies and mosquitoes have only one pair of wings, and instead of the second which most other insects possess they have a pair of organs which look like a tiny ball on a stick. These are called halteres and keep their owner rightside up in flight.

Beetles have a pair of heavy wings that meet in a straight line down the back. Beneath these are a pair of papery wings. (You can observe this easily on the Ladybird Beetle.) The wings of true bugs, (which are only one particular kind of insect and the word bug should not be used for all insects), are formed in this way: The upper part of the front wings near the head are thickened and the lower part lie criss-cross along the back. The large wings of moths and butterflies are covered with beautifully colored scales and the two wings hook together in flight. Ants and termites have wings for only a short time in their lives and some insects like fleas, silverfish and lice never grow wings at all.

Many insects pass through stages. In some the changes are small and in others total. Where the change is total we have three from egg to flying insect. Out of the egg hatches a larva, or caterpillar-like creature. This moults its skin several times as it grows larger until it has reached a certain size. Then it changes into a pupa, called a chrysalid when it is bare and a cocoon when it is covered. During the time it is in this state a complete change of form takes place and out of the pupa finally emerges a winged insect. This process is called metamorphosis.

Miss Lindley is going to help you to see how insects make a living, so you will be watching living insects, how they find and eat their food.

— JANET NICKELSBURG, *Education Chairman*



## OUTDOOR EDUCATION FOR ADULT LEADERS

Berkeley's Aquatic Park has been the scene of feverish activity lately. Besides the usual wintering waterfowl and shorebirds, there have been the landseaping surveys of the Citizens' Advisory Committee and, most important to Golden Gate members, the new training program in outdoor education for adult leaders of youth.

This training program is being sponsored on an experimental basis by our Society and the Berkeley Recreation and Parks Department. Mary Jefferds has loaned display materials through National Audubon's Conservation Resource Center on Bancroft Way, and Phyllis Lindley has undertaken the organization of the program. The training emphasizes outdoor "discovery trips" that demonstrate how to observe, enjoy and interpret natural processes and living things in an outdoor classroom that resembles schoolyard, playground, backyard or vacant lot — where nature knowledge begins in urbanized America. The teaching approach is unique in that it aims at stimulating awareness, inquiry and the urge to "put two and two together," eliciting direct personal involvement; participants learn from what they observe.

Elementary and student teachers come twice a week for four weeks; recreation workers, camp counselors, day camp leaders, youth group leaders and parents come once a week for four weeks. Each session runs 1½ hours with at least one hour outdoors.

The Golden Gate Board of Directors feels that this sort of educational endeavor is a concrete expression of Audubon conservation aims. Golden Gate members may wish to help publicize this training program among their friends who are teachers, counselors or otherwise involved in leading youngsters. If so, Phyllis urges you to call her (848-4043) for full schedule and enrollment details.

## "DELTA OF THE ORINOCO" — MARCH 18

The last Audubon Wildlife Film this season will be "Delta of the Orinoco" by Robert C. Hermes, who will personally present his color film in the Berkeley Little Theatre, Allston Way at Grove St., on *Thursday, March 18*, at 8 p.m. Tickets may be purchased at the door for \$1.50 after 7:30 p.m.

The Orinoco Delta in Venezuela is a vast area of swamps and jungles — one of the few remaining untouched natural regions of the world. Mr. Hermes, renowned photographer and naturalist, spent three months in this rugged and beautiful country recording on color film its wildlife and plant life. He spent a full month 40 miles from the nearest habitation photographing nesting hoatzins, the great aruco, and the lovely morpho butterflies. He shows magnificent close-ups of the oropendolas building their nests and chasing cowbirds away as they attempt to lay eggs in an oriole nest. His unique film includes jungle birds in courtship, a visit with the mud dauber wasp, water chestnuts in flower, exotic orchids, beautiful tropical hummingbirds, colorful macaws, the toucan, the four-eyed anableps fish, and the odd-looking sloth.

Robert C. Hermes of Homestead, Florida, became a naturalist at the age of twelve. His parents never objected to small boys with insects or snakes in their pockets. As a young man, he became a commercial artist, but in 1929 he left this work to study Fine Arts at the Art Students League in New York City. Mr. Hermes took up photography as a hobby and filmed the birds and animals he had loved in his childhood. His still pictures won national photographic contests. Twice he captured first prize in the International Graflex competition.

**YOSEMITE** — All reservations for the Camp Curry accommodations being held for Golden Gate Audubon must be made for *two nights*: Friday, May 21, and Saturday, May 22. The 15 bungalows with bath will cost \$6 per person daily, plus 4% tax, and the 10 cabins without bath will be \$3 per person daily, plus 4% tax. All the bungalows and cabins have twin beds and must be rented to *two persons*. There is no space to add an extra bed. It is very important to make reservations as early as possible *before May 1*. Unused reservations cannot be returned after that date. To reserve these accommodations, please send your checks, payable to Golden Gate Audubon Society, to Miss Marjorie Atkinson, 4 Willow Lane, Kensington, Calif., 94707. (Phone: 525-2702, evenings and weekends.) Please enclose a self-addressed, stamped envelope.



## *The Ninth Biennial*

# WILDERNESS CONFERENCE

*Sponsored by the Sierra Club*

April 2 - 3 - 4, 1965 · San Francisco Hilton Hotel

If you receive more than one of these announcements please pass the extra along to a friend.

## Wilderness in a Changing World

The Ninth Wilderness Conference brings together some of the nation's most distinguished conservationists to raise important questions and seek the answers. The conference is open to the public, to all who are concerned about one of our most important and rapidly vanishing scenic resources — wilderness.

### The Program

*Friday morning, 9 A.M.:* Wilderness in Crisis

*Friday noon:* Luncheon

SPEAKERS will include: STEWART L. UDALL, Secretary of the Interior; JOHN A. BLATNIK, Congressman from Minnesota; LYN-  
COLN DAY, Research Associate, Harvard School of Public Health;  
LYNA LEOPOLD, Chief Hydrologist, U.S. Geological Survey; JOHN  
CONDLEE, Director, Basic Economic Research, Stanford Re-  
search Institute; ALBERT BURKE, TV news and political analyst;  
JAMES BONNER, Professor of Biology, California Institute of  
Technology; PAUL BROOKS, Editor-in-Chief, Houghton Mifflin  
Company; A. J. HAMGEN-SMITT, Professor of Biochemistry, Cali-  
fornia Institute of Technology; CLARK KERR, President of the  
University of California; PAUL SEARS, retired Chairman, Yale  
Conservation Program; EDWARD CLIFF, Chief, U.S. Forest Ser-  
vice. *Friday noon:* Luncheon. *Friday afternoon:* Director's Reception of Outdoor Recreation.







Register now for

*The Ninth Biennial*

WILDERNESS CONFERENCE

4, 1965

San Francisco Hilton Hotel

*Saturday noon: Luncheon*

Dag Hammarskjöld Memorial Grove

JOHNS, CLAUDE VESON, wilderness consultant, naturalist and author; LOREN EISELEY, University Professor of Anthropology and the History of Science, University of Pennsylvania; WILLIAM GIBSON, Professor of the History of Medicine and Science, University of British Columbia; MARGARET OWINGS, California State Park Commission; HAROLD GULLIAM, author; WILLIAM SIRI, physicist to the Donner Laboratory, University of California, President of the Sierra Club.

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☐ Mr.  
☐ Mrs.  
☐ Miss

Number of Reservations

March 20 .....  
Registration only ..... Adult

Adult

Student.

Registration along with one or more meals.....Adult

Adult

Luncheon, Friday, April 2.

4.25

Banquet, Friday, April 2.

6.50. @

Luncheon, Saturday, April 3

④ § 4.25.

## Conservation Field Trip, Sunday, April 14

(picnic included)

§ 7—

A contribution to help defray conference cost is needed, welcome and tax-deductible -----

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My check (payable to Sierra Club) enclosed for

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Total

Mail this registration form, a self-addressed envelope, and your check to Sierra Club, P. O. Box 3471 Rincon Annex, San Francisco, California 94119

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STATE

ZIP CODE

Check boxes for information desired.

Please send information on hotel reservations.

Please send information on reserving a table for ten at banquet.

*For additional information*

Sierra Club, YUkon 2-2822.

1050 Mills Tower, San Francisco 94104



**CAN YOU HELP?** — For the months of March and May we need members to be hosts and hostesses at Audubon Canyon Ranch. We should have at least one member there each day, and two or three on Saturdays and Sundays. The hours are from 10 a.m. to 4 p.m. On weekends we hope to have an experienced naturalist on duty. If you can help as host or hostess, please phone Mrs. Phyllis Zveigart, 526-7295. Groups wishing to visit Canyon Ranch should write Mrs. Stanley Ellis, 2483 Mar East, Tiburon, giving the planned arrival date and time.

### FIELD OBSERVATIONS

**Marin County:** — On January 24, Val and Bob DaCosta observed a **SCISSOR-TAILED FLYCATCHER** behind the firehouse at Rodeo Lagoon. On January 21 Grace Miller of Nverness watched an interesting partial albino ruby-crowned kinglet at her snet feeders. His crown was snow-white and it was not retracted during her 10-minute observation.

**San Francisco:** — On January 12 Fred Nora found a common gallinule on North Lake of the Chain of Lakes in Golden Gate Park, and on January 17 Aileen Pierson and Pat Triggs saw the same species on Lake Merced.

**Oakland:** — Paul Covel reports the banding of a female hooded merganser that has been frequenting Lake Merritt this winter. Ed. Note: The Lake's waterfowl refuge was given well-deserved publicity in *The World of Birds* by Fisher and Peterson (1964). On page 139 the book includes a photo, a map, and a description of Lake Merritt as the world's first official bird sanctuary.

**Woodland:** — The *Observer* of Sacramento Audubon reported that a **WOOD IBIS** appeared December 5 at Joe Farnham's Sanctuary in Woodland. It was identified by Ed Warner and observed during several days in December by Betty Kimball, the Argantes, Madelaine Sheridan and Ellen Munson. (Santa Barbara Audubon Society also found a wood ibis in their area at Goleta Slough and Devereaux Slough December 12, according to *El Tecolote*.)

**MEMORIAL GIFTS** — Golden Gate Audubon Society purchased an acre of Canyon Ranch in memory of *Harold G. Peterson*. Additional gifts in memory of Harold G. Peterson were made by Dr. and Mrs. Albert Boles, Myra J. Browne, Mr. and Mrs. A. Laurence Curl, Mr. and Mrs. Ivor J. Davies, Ann Follis, Joseph Freitas, William S. Picher, Mr. and Mrs. David P. Snyder, Patricia Sullivan, and Minnie H. Young.

The following gifts of remembrance were also made to Canyon Ranch:

#### *In memory of*

Truman A. Miller  
Prof. Frederiek S. Baker  
Clifford Roberts  
Mr. Gerald Davis, Dr. Donald F. Williams  
and Bert Harwell (memorial nature trail)  
Mrs. Grace Atkinson  
Dr. Frances Carter and Mr. Lester Corey

#### *Gift of*

Mrs. Truman A. (Amy) Miller  
Dr. and Mrs. Jack Catheart  
Mr. and Mrs. Richard Johnson  
Mr. and Mrs. Hubert Fry  
Margaret Milwain  
Marion Avery

### NEW MEMBERS

We welcome the following new members to our Society: from Belvedere, Mr. William S. Picher; from Berkeley, Miss Ada L. Allan, Mrs. Harry F. Foster, Mr. and Mrs. Ralph J. Guertin; from Danville, Mr. and Mrs. Geoffrey G. Snow; from Hayward, Mr. Larry S. Landon; from Lafayette, Mrs. Marie Frolich; from San Francisco, Dr. and Mrs. Loren R. Chandler, Miss Gladys R. Scott, Mrs. Richard A. Smith, Mr. and Mrs. Hermann Zutraun. — **MARJORIE N. WILSON**, *Membership Chairman*

### OAKLAND CHRISTMAS BIRD COUNT — 1964

On this year's Oakland Christmas Count a record total of 171 species was found, compared with last year's previous high of 165 species. Our total of 171 is surpassed in California only by Tomales Bay at 186 and by San Diego at 173. In addition to finding so many species, Oakland had very large numbers of some species, including 15 probable national high counts.

Immediately following the count, most of the participants met at the home of R. Adm. and Mrs. R. Morgan Watt, Jr. for a buffet dinner. Everyone had a wonderful time, and thanks are due Admiral and Mrs. Watt for hosting this dinner for the third consecutive year.

For more details on this and other counts, see the April 1965 issue of *Audubon Field Notes*.

Count day: January 3, 1965

**Leaders:** Harry Adamson, Dr. Albert Boles, Myra Browne, Ted Chase, Howard L. Cogswell, Paul Covcl, A. Laurence Curl, Valeria DaCosta, Paul DeBenedictis, Norman Fitzwater, Bob Hamilton, L. Richard Leinbach, Marie Mans, Paul Opler, Bob Paxton, Aileen Pierson, John Ralph, Ken Schulz, Lee Stallcup, Rich Stallcup, Alice Williams. **Observers:** Betty Adamson, J. Casons, Ted and Zoe Chandik, Jim and Charlotte Clayton, Harold Connon, Robert DaCosta, Ivor and Winifred Davies, Martin Edwards, Bill Gilbert, Phil Gordon, Woodford Harrison, Eleanor Hebard, John Hoyer, Jan Kroesen, A. Warren Larson, Grace Lewis, D. B. Luten, Arthur H. Myer, Alice Radcliffe, Henry Robert, Loris P. Smith, Jean Stallcup, Tom Steller, Crawford and Kathleen Thomas, Patricia Tiggard, Inez Troxell, Bertha Underhill, Hermine Van Gelder, Wallace Wood, Jane Woods, Phyllis Zweigart.

**Totals:** 57 observers, 171 species, 123,349 individuals.

Seen in count period, but not on day of count: White-tailed Kite (shot just before the count), Virginia Rail, Heermann's Gull, Phainopepla, Western Tanager.

Compiler: Arthur Wang

\*Species of special interest

\*\*Numbers of special interest

LOON, Common .....	7	Lesser .....	1,521
Arctic .....	2	Sp? .....	2,338
Red-throated .....	4	GOLDENEYE, Common .....	838
Sp? .....	2	*Barrow's .....	2
GREBE, Red-necked .....	3	Bufflehead .....	755
Horned .....	179	SCOTER, White-winged .....	92
Eared .....	72	Surf .....	488
Western .....	318	Sp? .....	40
Pied-billed .....	46	DUCK, Ruddy .....	6,044
PELICAN, White .....	16	MERGANSEr, Hooded .....	5
Brown .....	1	Common .....	30
CORMORANT, Double-cr. .....	142	Red-breasted .....	44
Brandt's .....	1	VULTURE, Turkey .....	23
HERON, Great Blue .....	9	HAWK, Sharp-shinned .....	9
EGRET, Common .....	17	Cooper's .....	5
Snowy .....	29	Red-tailed .....	40
HERON, Bl. cr. Night .....	3	EAGLE, Golden .....	2
BITTERN, American .....	1	HAWK, Marsh .....	2
SWAN, Whistling .....	41	*HAWK, Pigeon .....	1
GOOSE, Canada .....	1,496	Sparrow .....	57
Snow .....	3	QUAIL, California .....	310
Mallard .....	679	PHEASANT, Ring-necked .....	2
Gadwall .....	6	CHUKAR .....	1
Pintail .....	393	RAIL, Clapper .....	15
TEAL, Green-winged .....	196	Sora .....	3
*Blue-winged .....	3	Coot .....	4,010
Cinnamon .....	9	PLOVER, Semipalmated .....	53
*WIDGEON, European .....	1	Snowy .....	38
American .....	859	Killdeer .....	265
Shoveler .....	232	PLOVER, Black-bellied .....	683
DUCK, Wood .....	23	TURNSTONE, Ruddy .....	7
**Redhead .....	49	Black .....	14
DUCK, Ring-necked .....	66	SNIPE, Common .....	4
Canvasback .....	4,126	CURLEW, Long-billed .....	34
SCAUP, Greater .....	1,602	Whimbrel .....	23

SANDPIPER, Spotted .....	4	TITMOUSE, Plain .....	131
Willet .....	3,097	°°BUSHTIT, Common .....	1,565
YELLOWLEGS, Greater .....	3	NUTHATCH, White-breasted .....	7
Knot .....	132	Red-breasted .....	17
SANDPIPER, Least .....	612	CREEPER, Brown .....	19
Dunlin .....	8,508	Wrentit .....	398
DOWITCHER, Short-billed ..	228	°Dipper .....	1
Long-billed .....	70	WREN, House .....	1
Sp? .....	1,135	Winter .....	24
SANDPIPER, Western .....	10,386	Bewick's .....	127
Sp? .....	1,700	Long-billed Marsh .....	1
GODWIT, Marbled .....	1,788	Mockingbird .....	40
Sanderling .....	2,222	THRASHER, California .....	24
AVOCET, American .....	3,309	Robin .....	9,747
°GULL, Glaucous .....	2	°°THRUSH, Varied .....	610
°Glaucous-winged .....	7,939	Hermit .....	181
°Western .....	1,793	BLUEBIRD, Western .....	68
°Herring .....	1,683	°SOLITAIRE, Townsend's ....	1
°California .....	3,071	KINGLET, Golden-crowned..	63
°Ring-billed .....	2,525	Ruby-crowned .....	350
Mew .....	364	PIPIT, Water .....	75
Bonaparte's .....	400	WAXWING, Cedar .....	1,588
Sp? .....	7,930	SHRIKE, Loggerhead .....	36
°KITTIWAKE, Black-legged..	1	°°Starling .....	5,149
TERN, Forster's .....	18	VIREO, Hutton's .....	16
PIGEON, Band-tailed .....	399	WARBLER, Orange-crowned ..	2
DOVE, Mourning .....	440	Myrtle .....	27
°Inea .....	2	Audubon's .....	152
OWL, Barn .....	2	Townsend's .....	4
Screech .....	5	Yellowthroat .....	1
Great Horned .....	27	SPARROW, House .....	404
Pygmy .....	1	MEADOWLARK, Western ....	449
Burrowing .....	4	BLACKBIRD, Redwinged ....	1,501
°°Short-eared .....	31	Tricolored .....	40
HUMMINGBIRD, Anna's ....	80	Brewer's .....	1,738
° <i>Selasphorus</i> Sp? .....	1	COWBIRD, Brown-headed ....	4
KINGFISHER, Belted .....	2	FINCH, Purple .....	86
FLICKER, Yellow-shafted ....	1	House .....	1,238
Red-shafted .....	184	SISKIN, Pine .....	170
WOODPECKER, Acorn .....	47	GOLDFINCH, American .....	133
SAPSUCKER, Yellow-bellied ..	6	Lesser .....	130
WOODPECKER, Hairy .....	4	°CROSSBILL, Red .....	5
Downy .....	8	TOWHEE, Rufous-sided .....	283
Nuttall's .....	13	°°Brown .....	1,523
PHOEBE, Black .....	21	SPARROW, Savannah .....	165
Say's .....	11	Rufous-crowned .....	3
LARK, Horned .....	162	JUNCO, Slate-colored .....	4
SWALLOW, Sp? .....	1	Oregon .....	1,190
JAY, Steller's .....	276	SPARROW, White-crowned ..	1,846
Scrub .....	391	Golden-crowned .....	1,032
°RAVEN, Common .....	1	White-throated .....	6
CROW, Common .....	35	Fox .....	283
CHICKADEE, .....		Lincoln's .....	11
Chestnut-backed .....	348	Song .....	331

TOMALES BAY COUNT: On New Year's Day 59 observers found 186 species, two more than ever before, and a total of over 94,000 individual birds. William S. Picher and, Ted Chase were co-compilers. Unusual sightings were: Barrow's goldeneye, hooded merganser, yellow-headed blackbird, prairie falcon, palm warbler, red phalarope, glaucous gull, knot, and a slender-billed shearwater seen from Tomales Point.





GOLDEN GATE AUDUBON SOCIETY, INC.  
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## **GOLDEN GATE AUDUBON SOCIETY, INC.**

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Monthly meetings second Thursday, 7:30 p.m. Joint Membership, Local and National, \$8.50 per year, includes AUDUBON MAGAZINE and THE GULL. Subscription to THE GULL separately \$2.00 per year.

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